APPENDIX XI

RISK ASSESSMENT ~~WORK PLAN~~REPORT

FOR

~~SIEMENS WATER TECHNOLOGIES CORP~~SIEMENS INDUSTRY, INC.

PARKER REACTIVATION FACILITY

PARKER, ARIZONA

Revision ~~0~~1
~~February 2007~~April 2012

Table of Contents

Summary of Documents

1. Risk Assessment Executive Summary dated **March 13, 2008**

2. Risk Assessment for the Siemens Water Technologies Corp. Carbon Reactivation Facility – Parker, Arizona dated **July 30, 2007**

3. Response to U.S. Environmental Protection Agency Region IX Comments on the Siemens Water Technologies Corp. Carbon Regeneration Facility Risk Assessment, Parker, Arizona dated **March 13, 2008**

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The risk assessment was performed according to a USEPA-approved Risk Assessment Workplan developed in 2003, updated by agreement with the USEPA to include elements of more recent 2005 USEPA guidance for risk assessments of waste combustion facilities. The USEPA approvals were received prior to the initiation of this study which included evaluations of potential human health and ecological risks associated with both furnace stack air emissions and fugitive air emissions from spent carbon unloading. At USEPA's request, the assessment also included evaluations of potential risks associated with exposure to the facility's effluent discharge to the Colorado River Sewage System Joint Venture (CRSSJV) publicly owned sewage treatment plant and with exposure to airborne chemicals in the workplace at the facility. The risk assessment for this project is presented in two documents. The first document is the *Draft Risk Assessment for the Siemens Water Technologies Corp. Carbon Reactivation Facility in Parker, Arizona* which was submitted to USEPA on July 30, 2007. The second document is the *Response To USEPA Region IX Comments on the Draft Siemens Water Technologies Corp. Carbon Regeneration Facility Risk Assessment* which was submitted to USEPA on March 13, 2008, to respond to comments on the draft risk assessment that were received from the Agency in late 2007.

In conclusion, the risk assessment demonstrates that, using conservative assumptions:

- the potential risks associated with air emissions from the Siemens Water Technologies Corp. carbon reactivation furnace and from spent carbon unloading are below regulatory and other target risk levels for both human health and ecological receptors;

- the incremental contribution of the facility effluent on the CRSSJV wastewater treatment plant discharge and the Main Drain does not pose unacceptable risks to either aquatic life or human health; and

- modeled on-site air concentrations due to fugitive emissions during spent carbon unloading at the facility, and measured worker breathing zone concentrations, do not exceed occupational exposure limits.

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